

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/991,225

DATE: 12/03/2001 TIME: 14:25 07

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I991225.raw



	_				_												
		<110>															
					INVE	NTIO	N: A	NOV	EL H	UMAN	G-P	ROTE.	IN C	OUPL	ED R	ECEPTOR,	HGPRBMY11,
EXPR	KPRESSED HIGHLY IN																
	6	6 HEART AND VARIANTS THEREOF 8 <130> FILE REFERENCE: D0075.NP															
C>	10	<140>	CURRE	NT A	PPLI	CATI	ON N	UMBE	R: U	S/09	/991	,225					
C>	10	<141>	CURRE	NT F	ILIN	G DA	TE:	2001	-11-	16							
	10	<150>	PRIOR	APP	LICA	TION	NUM	BER:	60/	249,	613						
	11	<151>	PRIOR	FIL	ING I	DATE	: 20	00-1	1-17								
	13	<150>	PRIOR	APP	LICA'	TION	NUM	BER:	60/	257,	611						
	14	<151>	PRIOR	FIL	ING 1	DATE	: 20	00-1	2-21								
	16	6 <150> PRIOR APPLICATION NUMBER: 60/305,818															
		7 <151> PRIOR FILING DATE: 2001-07-16															
		9 <160> NUMBER OF SEQ ID NOS: 81															
		1 <170> SOFTWARE: PatentIn version 3.0															
		3 <210> SEQ ID NO: 1															
		4 <211> LENGTH: 1708															
		5 <212> TYPE: DNA															
		5 <213> ORGANISM: homo sapiens															
		8 <220> FEATURE:															
		9 <221> NAME/KEY: CDS															
		0 <222> LOCATION: (515)(1504)															
		2 <400> SEQUENCE: 1															
		cccacgcgtc cggggagctt gcactaacat ctacaatggc ttctaaaaag cacagatgac 60															
		ctgctacact tcctgacttg cttgctattg gttggcactg ttcataaata taatttgctc 120															
		tttcactttt ctttgaaatg agcaacctga attactcgga ggagaaaggc aggagagata 180															
		gaggcagcag aagccagggc agctgaaaga cagagacctt cagtctgaac caacaacaag 240 caaagttaaa ttatggatat ccaagggagt ctatagaagg tccatgcaag acattttgac 300															
		_								_			_	_		_	300
		tactto	_		-												360
		aaggga															420
	47	gtgago	caacg	tggaa	agat	gg gt	tgat	ttct	g cat	tttc	caac	tgag	gcate	gga g	gagaa	aaatt	480
	49	tatgto	cttg	caaco	catco	ca to	ctcc	gtate	c aga	aa at	tg ga	aa co	ca aa	at go	jc ad	c ttc	535
	50									Me	et Gi	lu Pi	ro As	sn Gl	y Tl	ır Phe	
	51									1				5			
	53	agc aa	t aac	aac	agc	agg	aac	tgc	aca	att	gaa	aac	ttc	aag	aga	gaa	583
		Ser As															•
	55		10			_		15					20	-	_		
	57	ttt tt	c cca	att	σta	tat	cta	ata	ata	ttt	ttc	taa	σσa	atc	tta	σσa	631
		Phe Ph															
	59	25				-						_	1			1	
	_	aat gg											aag	ааσ	tcc	aca	679
		Asn Gl															073
	63		y neu	DET	116	45	4 CL T	FIIG	neu.	GIH	50	TAT	пуз	פעם	DET	55	
			a 226	~++	++~		a+ =	a a +	at~	~~~		+ ~ ~	as+	ata	at a		727
		tct gt							_	-			-				727
		Ser Va	ı ASN	var		met	теп	ASII	ьeu		тте	ser	ASP	цец		FIIE	
	67			_++	60					65		_4.4			70		775
		ata ag															775
	70	Ile Se	r Inr	ьeu	Pro	ьие	arg	АТа	Asp	туг	туr	ьeu	arg	GТĀ	ser	ASN	

RAW SEQUENCE LISTING DATE: 12/03/2001 PATENT APPLICATION: US/09/991,225 TIME: 14:25:07

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1991225.raw

													•				
71				75					80					85			
73	tgg	ata	ttt	gga	gac	ctg	gcc	tgc	agg	att	atg	tct	tat	tcc	ttg	tat	823
74	Trp	Ile	Phe	Gly	Asp	Leu	Ala	Cys	Arg	Ile	Met	Ser	Tyr	Ser	Leu	Tyr	
75			90					95					100				
77	gtc	aac	atq	tac	aqc	agt	att	tat	ttc	ctg	acc	gtg	ctg	agt	gtt	gtg	871
	-		_		_	_				_			Leu	_	_		
79		105		•			110	-				115					
81	cat	ttc	ctq	qca	atq	att	cac	ccc	ttt	cqq	ctt	ctq	cat	qtc	acc	agc	919
	_		-	-	_	-						-	His	-		_	
	120					125					130					135	
85	atc	agg	agt.	acc	t.aa	atc	ctc	t.at.	aaa	at.c		t.aa	atc	ct.t	at.c		967
													Ile				50,
87		3			140			012	V-1	145					150		
	act	tcc	tca	ata		ctc	cta	gac	agt		tct	σασ	cag	aac		aσt	1015
													Gln				1013
91	·····	001	001	155	1100	Deu	neu	пор	160	011	DCI	Oru	0111	165	O ₁	DCI	
	atc	aca	tca		tta	σασ	cta	aat		tat	aaa	att	gct		cta	сал	1063
													Ala				1005
95	VUL	1111	170	Cys	Deu	GIU	Бец	175	пси	TYL	шуз	110	180	цуз	пси	GIII	
-	200	ata		tat	att	aaa	tta		ata	aac	tac	ata	ctg	002	+++	ttc.	1111
													Leu				****
99	1111	185	USII	тут	116	πια	190	Val	VUL	Gry	Суз	195	пец	FIO	FIIC	FIIC	•
	202		200	. atc	. + a+	+ + + +		ata	, ato	, att			- ata	++>	222	gtg	1159
			_		_		_	_					_			Val	1139
	200		. Der	116	- Суг	205		. пес	1 116	. 110	210		. пеи	пеп	плэ	215	
				<i>α</i> 2 2	+ 400			000	, att	+ + + +					ata	acc	1207
																Thr	1207
107		val	PIU	GIU	220	_	Leu	AIG	y vai	. ser 225		ALC	h rila	Ald	. дец 230		
		ato	ato	- a+c			ato	2+0	. ++			+ 4+	. ++~	ata		tat	1255
						_					_	_		_		Tyr	1233
111		116	116	235		пеп	116	116	240		: neu	Суз	, FIIE	245		ıyı	
		202	ata			ato		++0			taa		ata			tgc	1303
																Cys	1303
115		1111	250	_	1 1111	vai	. 1113	255		1111	115	пуз	260	-	пеп	Cys	
		g a c			cat	222	act			ato	202	ata	gcc		a a a	aca.	1351
		_	_	_			-	_	_			_	. Ala	_	_	_	1331
119		265	_	пеи	птэ	пуз	270		. vai	. 116	1111	275		ьeu	ніа	Ala	
				+ ~ ~	. ++0	22+			. ata	. + - +	+20			~~~	~~~	aat	1399
													. gcc Ala				1333
	280		Ата	Cys	PILE	285		Deu	пеп	TAT	290		: Ата	СТУ	GIU	295	
			~~~	2072	at a			~~~	a+ a				cat	000	~~~		1447
																	1447
		ьуѕ	ASP	AIG			ser	Ата	Leu			СТУ	His	PIO		Lys	
127		22~	200	226	300		++~	~~±	~++	305		+~-	. ++~	2	310	~~~	1405
													ttg				1495
131		пÄS	1111	ьуs 315	_	val	P116	PLO	320		val	ттЕ	Leu	_	_	GIU	
		200	~+ ^			a+ a	++~~	-+ <i>-</i> -			+~++	+-	<b>.</b>	325			1544
					yyag	CLC	LLag	alga	ya C	cugt	LUTT	y ta	tcct	Lytg			1544
	TIIL	Arg															
135			330														

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/991,225

DATE: 12/03/2001
TIME: 14:25:07

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1991225.raw

139	7 tocatottoa ttoactoata gtotocaaat gaotttgtat ttacatoact cocaacaaat 9 gttgattott aatatttagt tgaccattac ttttgttaat aagacotact toaaaaattt 1 tattoagtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa															1604 1664 1708		
	4 <210> SEQ ID NO: 2																	
145	5 <211> LENGTH: 330																	
146	46 <212> TYPE: PRT 47 <213> ORGANISM: homo sapiens																	
147	<213	3> OI	RGAN	SM:	homo	sap	piens	3										
149	<400	)> S!	EQUE	ICE:	2													
151 152	Met 1	Glu	Pro	Asn	Gly 5	Thr	Phe	Ser	Asn	Asn 10	Asn	Ser	Arg	Asn	Cys 15	Thr		
	Ile	Glu	Asn	Phe	Lys	Arg	Glu	Phe	Phe	Pro	Ile	Val	Tyr	Leu	Ile	Ile		
156				20	-	_			25					30				
159	Phe	Phe	Trp	Gly	Val	Leu	Gly	Asn	Gly	Leu	Ser	Ile	Tyr	Val	Phe	Leu		
160			35					40					45					
163	Gln	Pro	Tyr	Lys	Lys	Ser	Thr	Ser	Val	Asn	Val	Phe	Met	Leu	Asn	Leu		
164		50					55					60						
167	Ala	Ile	Ser	Asp	Leu	Leu	Phe	Ile	Ser	Thr	Leu	Pro	Phe	Arg	Ala	Asp		
168						70					75					80		
171	Tyr	Tyr	Leu	Arg	Gly	Ser	Asn	Trp	Ile	Phe	Gly	Asp	Leu	Ala	Cys	Arg		
172					85					90					95			
175	Ile	Met	Ser	Tyr	Ser	Leu	Tyr	Val	Asn	Met	$\mathtt{Tyr}$	Ser	Ser	Ile	$\mathtt{Tyr}$	Phe		
176				100					105					110				
179	Leu	Thr	Val	Leu	Ser	Val	Val	Arg	Phe	Leu	Ala	Met		His	Pro	Phe		
180			115					120					125					
183	Arg	Leu	Leu	His	Val	Thr	Ser	Ile	Arg	Ser	Ala		Ile	Leu	Cys	Gly		
184		130					135					140						
187	Ile	Ile	${\tt Trp}$	Ile	Leu		Met	Ala	Ser	Ser		Met	Leu	Leu	Asp			
	145					150					155	_		_	_	160		
	Gly	Ser	Glu	Gln		Gly	Ser	Val	Thr		Cys	Leu	GLu	Leu		Leu		
192			_	_	165					170	_	1			175	**- 1		
	Tyr	Lys	Ile		Lys	Leu	Gln	Thr		Asn	Tyr	тте	Ата		val	vaı		
196			_	180	_	_,	_,	-1	185	<b>~</b>	<b>-1</b> -	G	m	190	T	T1 -		
	Gly	Cys		Leu	Pro	Phe	Phe		Leu	ser	тте	Cys		Leu	ьeu	116		
200		_	195	_	_	-	1	200	**- 1	D	<b>01</b>		205	T 0	7 m ~	37 n 1		
	Ile	-	vaı	Leu	Leu	ьуs		GLU	val	PIO	GIU		GTA.	ьeu	Ary	Val		
204	<b>G</b>	210	3	T	<b>7.1</b> -	T 011	215	mh.~	т1.	т1.	т1о	220	T 011	т10	т10	Dho		
	Ser	HlS	Arg	ьys	Ala		Thr	THE	тте	ire		1111	ьеи	TTE	116	240		
	225 Phe	T	<b>G</b>	Dh.a	T 0	230	M	mi a	mh∽	T 011	235	Thr	Va I	uic	LOU			
		Leu	cys	Pne		PIO	TAT	нтѕ	TIII	250	AIG	1111	Val	птэ	255	1111		
212	Thr	(T) 1000	Ta	171	245	Tou	Cvra	Twa	'A an		LOU	Uic	T.v.e	Δla		Val		
		ттр	ьуѕ	260	СТУ	ьeu	Cys	пур	265	AIG	пец	птэ	цуз	270	neu	Vai		
216	Ile	Thr	Lou		Lau	Δla	Δla	Δla		Δla	Cve	Phe	Asn		T.eu	Leu		
220	тте	TIIT	275	пта	пец	чта	пти	280	V211	mid	CYB	1 110	285	110	200			
	Tyr	Фил		Δla	G1 v	Glu	Asn		Lve	Asp	Arσ	Len		Ser	Ala	Leu		
223	_	290	r ne	ALU	OLY	JIU	295	1 110	-,5	-12P	9	300	-15					
	Arg		G1 v	Hic	Pro	Gln		Ala	Lvs	Thr	Lvs		Val	Phe	Pro	Val		
	305	Lys	OT Y	1110	110	310	_15		~, 5		315	-15				320		
	Ser	Val	Tro	Leu	Arσ		Glu	Thr	Ara	Va l						-		
					9	_1_												

RAW SEQUENCE LISTING DATE: 12/03/2001 PATENT APPLICATION: US/09/991,225 TIME: 14:25:07

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\1991225.raw

```
232
                                       330
235 <210> SEQ ID NO: 3
236 <211> LENGTH: 362
237 <212> TYPE: PRT
238 <213> ORGANISM: homo sapiens.
240 <400> SEQUENCE: 3
242 Met Thr Glu Ala Leu Ile Ser Ala Ala Leu Asn Gly Thr Gln Pro Glu
245 Leu Leu Ala Gly Gly Trp Ala Ala Gly Asn Ala Thr Thr Lys Cys Ser
248 Leu Thr Lys Thr Gly Phe Gln Phe Tyr Tyr Leu Pro Thr Val Tyr Ile
                               40
251 Leu Val Phe Ile Thr Gly Phe Leu Gly Asn Ser Val Ala Ile Trp Met
254 Phe Val Phe His Met Arg Pro Trp Ser Gly Ile Ser Val Tyr Met Phe
257 Asn Leu Ala Leu Ala Asp Phe Leu Tyr Val Leu Thr Leu Pro Ala Leu
260 Ile Phe Tyr Tyr Phe Asn Lys Thr Asp Trp Ile Phe Gly Asp Val Met
               100
                                   105
263 Cys Lys Leu Gln Arg Phe Ile Phe His Val Asn Leu Tyr Gly Ser Ile
                               120
266 Leu Phe Leu Thr Cys Ile Ser Val His Arg Tyr Thr Gly Val Val His
                           135
269 Pro Leu Lys Ser Leu Gly Arg Leu Lys Lys Lys Asn Ala Val Tyr Val
                       150
                                           155
272 Ser Ser Leu Val Trp Ala Leu Val Val Ala Val Ile Ala Pro Ile Leu
                                       170
                   165
275 Phe Tyr Ser Gly Thr Gly Val Arg Arg Asn Lys Thr Ile Thr Cys Tyr
                                   185
278 Asp Thr Thr Ala Asp Glu Tyr Leu Arg Ser Tyr Phe Val Tyr Ser Met
281 Cys Thr Thr Val Phe Met Phe Cys Ile Pro Phe Ile Val Ile Leu Gly
                           215
284 Cys Tyr Gly Leu Ile Val Lys Ala Leu Ile Tyr Lys Asp Leu Asp Asn
                                            235
                       230
287 Ser Pro Leu Arg Arg Lys Ser Ile Tyr Leu Val Ile Ile Val Leu Thr
                   245
                                       250
290 Val Phe Ala Val Ser Tyr Leu Pro Phe His Val Met Lys Thr Leu Asn
                                   265
               260
293 Leu Arg Ala Arg Leu Asp Phe Gln Thr Pro Gln Met Cys Ala Phe Asn
          275
                               280
296 Asp Lys Val Tyr Ala Thr Tyr Gln Val Thr Arg Gly Leu Ala Ser Leu
                           295
299 Asn Ser Cys Val Asp. Pro Ile Leu Tyr Phe Leu Ala Gly Asp Thr Phe
                                           315
                       310
302 Arg Arg Arg Leu Ser Arg Ala Thr Arg Lys Ser Ser Arg Arg Ser Glu
                                       330
305 Pro Asn Val Gln Ser Lys Ser Glu Glu Met Thr Leu Asn Ile Leu Thr
```

RAW SEQUENCE LISTING DATE: 12/03/2001 PATENT APPLICATION: US/09/991,225 TIME: 14:25:07

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I991225.raw

306				340					345					350		
	Glu	Tvr	Lvs		Asn	Glv	Asp	Thr		Leu				330		
309	Olu	-1-	355	0		011	TIPE	360								
	<210> SEQ ID NO: 4															
				H: 30												
		2> T														
314	<213	3> 01	RGAN	ISM:	homo sapiens											
				NCE:		•										
318	Met	Thr	Glu	Ala	Leu	Ile	Ser	Ala	Ala	Leu	Asn	Gly	Thr	Gln	Pro	Glu
319					5					10			•		15	
321	Leu	Leu	Ala	Gly	Gly	${\tt Trp}$	Ala	Ala	Gly	Asn	Ala	Ser	Thr	Lys	Cys	Ser
322				20		,			25					30		
324	Leu	Thr	Lys	Thr	Gly	Phe	Gln	Phe	Tyr	Tyr	Leu	Pro	Thr	Val	Tyr	Ile
325			35					40					45			
327	Leu	Val	Phe	Ile	Thr	Gly		Leu	Gly	Asn			Ala	Ile	${\tt Trp}$	Met
328		50					55					60				
330	Phe	Val	Phe	His	Met	-	Pro	${\tt Trp}$	Ser	Gly		Ser	Val	Tyr	Met	
331						70					75				_	80
	Asn	Leu	Ala	Leu		Asp	Phe	Leu	Tyr		Leu	Thr	Leu	Pro		Leu
334	_	_			85		_		_	90		1		_	95	
	Ile	Phe	Tyr	_	Phe	Asn	Lys	Thr		Trp	IIe	Phe	GLY	Asp	vaı	Met
337	_	_	_	100		<b>D</b> 1.	<b>-1</b> .	D1	105	**- 1	3	T	M	110	0	т1 о
	Cys	Lys		GIn	Arg	Pne	шe		HIS	vaı	ASI	ьeu	125	Gly	ser	ше
340	T	nh -	115	mb	<b>0</b>	т1.	Com	120	111.0	7 ~~	Пттю	mh ~		Wa l	17 n 1	uic
	Leu		Leu	Thr	Cys	тте	135	Val	HIS	Arg	TYL	140	СТУ	Val	vai	птѕ
343	Dro	130	T 110	Cor	Tou	C117		T OU	Lvc	Luc	Lare		λla	Val	Фъл∽	Va 1
	145	Leu	тÃР	361	Leu	150	AIG	Бец	цуз	цуз	155	ASII	пти	Val	1 <b>y 1</b>	160
		Ser	T.@11	Va 1	Trn		Leu	Va l	Va 1	Ala		Tle	Ala	Pro	Tle	
349	DCI	DCI	пси	, aı	165	1114	пса	· u ·	, 41	170	,				175	
	Phe	Tvr	Ser	Glv		Glv	Val	Ara	Ara		Lvs	Thr	Ile	Thr	Cys	Tyr
352		-1-		180		1		5	185		-			190	-	-
	Asp	Thr	Thr	Ala	Asp	Glu	Tyr	Leu	Arg	Ser	Tyr	Phe	Val	Tyr	Ser	Met
355	•		195		-		-	200			_		205	_		
357	Cys	Thr	Thr	Val	Phe	Met	Phe	Cys	Ile	Pro	Phe	Ile	Val	Ile	Leu	Gly
358		210					215					220				
360	Cys	Tyr	Gly	Leu	Ile	Val	Lys	Ala	Leu	Ile	Tyr	Lys	Asp	Leu	Asp	Asn
361						230					235					240
363	Ser	${\tt Pro}$	Leu	Arg	Arg	Lys	Ser	Ile	$\mathtt{Tyr}$	Leu	Val	Ile	Ile	Val		$\mathtt{Thr}$
364					245					250					255	
366	Val	Phe	Ala		Ser	$\mathtt{Tyr}$	Leu	Pro		His	Val	Met	Lys	Thr	Leu	Asn
367				260			_		265				_	270		_
	Leu	Arg		Arg	Leu	Asp	Phe		Thr	Pro	GIn	Met		Ala	Phe	Asn
370	_	_	275	_		-1	_	280		m1		<b>a</b> 7	285	n 1	a	T
	Asp	_	Val	$\mathtt{Tyr}$	Ala	Thr		Gln	Val	Thr	Arg		Leu	Ala	ser	ьeu
373	<b>.</b> .	290	<b>a</b>	**. 7		D	295	T	m	n1	T	300	a1	7 ~	ml	nh -
		ser	Cys	val	Asp		тте	ьeu	ryr	ьиe		ата	стА	Asp	THE	
376		7	A	т	0	310	27-	mh~	7 ~~	T ***	315	Co~	λ <b>~~</b> ~	7 ra	202	320
3/8	arg	arg	arg	ьeu	ser	arg	нта	LIII	Arg	гая	ser	ser.	Arg	Arg	26I	GIU



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 12/03/2001

PATENT APPLICATION: US/09/991,225

TIME: 14:25:08

Input Set : A:\es.txt

Output Set: N:\CRF3\11212001\I991225.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1794 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:80

L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 L:1814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80

L:1820 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:81

L:1838 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81